

Parkview Memorial Hospital)
Cumberland County)
Brunswick, Maine)
A-102-71-E-M/R)

Departmental
Findings of Fact and Order
Air Emission License

After review of the air emissions license renewal/minor revision application, staff investigation reports and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A., Section 344 and Section 590, the Department finds the following facts:

I. REGISTRATION

A. Introduction

Parkview Memorial Hospital of Brunswick, Maine has applied to renew their Air Emission License permitting the operation of emission sources associated with their health care facility.

Parkview has also requested a minor revision to their license in order to incorporate operational flexibility. Although not currently equipped to burn #2 oil or natural gas in the three boilers, the hospital requests an option to burn these fuels in the future. Parkview proposes to maintain their current annual fuel limit of 200,000 gallons or the equivalent of 29,000 MMBtu/yr when burning natural gas or #2 fuel oil.

B. Emission Equipment

Parkview is authorized to operate the following equipment:

Fuel Burning Equipment

<u>Equipment</u>	<u>Maximum Capacity (MMBtu/hr)</u>	<u>Maximum Firing Rate</u>	<u>Fuel Type, % sulfur</u>	<u>Stack #</u>
Boiler #1	2.5	16.5 gal/hr 18.0 gal/hr 2510 cfh	#4 fuel oil at 0.7% #2 fuel oil at 0.5% natural gas	1
Boiler #2	2.5	16.5 gal/hr 18.0 gal/hr 2510 cfh	#4 fuel oil at 0.7% #2 fuel oil at 0.5% natural gas	1
Boiler #3	2.5	16.5 gal/hr 18.0 gal/hr 2510 cfh	#4 fuel oil at 0.7% #2 fuel oil at 0.5% natural gas	1

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Electrical Generation Equipment

<u>Equipment</u>	<u>Power Output (kW)</u>	<u>Firing Rate (gal/hr)</u>	<u>Pollution Controls</u>	<u>Stack #</u>
Engine #1	250	18.9	none	2

C. Application Classification

The application for Parkview does not include the licensing of increased emissions or the installation of new or modified equipment. Therefore, the license is considered to be a renewal of current licensed emission units only.

II. BEST PRACTICAL TREATMENT (BPT)

A. Introduction

In order to receive a license the applicant must control emissions from each unit to a level considered by the Department to represent Best Practical Treatment (BPT), as defined in Chapter 100 of the Air Regulations. Separate control requirement categories exist for new and existing equipment as well as for those sources located in designated non-attainment areas.

BPT for existing emissions equipment means that method which controls or reduces emissions to the lowest possible level considering:

- the existing state of technology;
- the effectiveness of available alternatives for reducing emission from the source being considered; and
- the economic feasibility for the type of establishment involved.

B. Boilers #1, #2 and #3

Parkview operates boilers #1, #2 and #3 which each have a maximum design heat input of 2.5 MMBtu/hr firing #4 fuel oil with a maximum sulfur content not to exceed 0.7% by weight. Boilers #1, #2 and #3 are not subject to EPA New Source Performance Standards (NSPS) Subpart Dc for boilers with a heat input greater than 10 MMBtu/hr.

Parkview shall also be able to fire #2 fuel oil with a maximum sulfur content not to exceed 0.5% by weight or natural gas in boilers #1, #2 and/or #3, as future plans may allow.

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C. Engine #1

Parkview also operates one emergency diesel engine to be used in case of regular electric service being interrupted. The generator is a Caterpillar Model 3306B with a power output of 250 kW firing low sulfur diesel with a sulfur content not to exceed 0.05% by weight.

III.AMBIENT AIR QUALITY ANALYSIS

According to the Maine Regulations Chapter 115, the level of air quality analyses required for a renewal source shall be determined on a case-by case basis. Modeling and monitoring are not required for a renewal if the total emissions of any pollutant released do not exceed the following:

<u>Pollutant</u>	<u>Tons/Year</u>
PM	50
PM ₁₀	25
SO ₂	50
NO _x	100
CO	250

Based on the license allowed emissions from this facility, no monitoring or modeling are required at this time.

ORDER

Based on the above Findings and subject to conditions listed below, the Department concludes that the emissions from this source:

- will receive Best Practical Treatment,
- will not violate applicable emission standards,
- will not violate applicable ambient air quality standards in conjunction with emissions from other sources.

The Department hereby grants Air Emission License A-102-71-E-M/R subject to the following conditions:

- (1) Employees and authorized representatives of the Department shall be allowed access to the licensee's premises during business hours, or any time during which any emissions units are in operation, and at such other times as the Department deems necessary for the purpose of performing tests, collecting samples, conducting inspections, or examining and copying records relating to emissions.

- (2) The licensee shall acquire a new or amended air emission license prior to commencing construction of a modification, unless specifically provided for in Chapter 115.
- (3) Approval to construct shall become invalid if the source has not commenced construction within eighteen (18) months after receipt of such approval or if construction is discontinued for a period of eighteen (18) months or more. The Department may extend this time period upon a satisfactory showing that an extension is justified, but may condition such extension upon a review of either the control technology analysis or the ambient air quality standards analysis, or both.
- (4) The licensee shall establish and maintain a continuing program of best management practices for suppression of fugitive particulate matter during any period of construction, reconstruction, or operation which may result in fugitive dust, and shall submit a description of the program to the Department upon request.
- (5) The licensee shall pay the annual air emission license fee to the Department, calculated pursuant to Title 38 M.R.S.A. § 353.
- (6) The license does not convey any property rights of any sort, or any exclusive privilege.
- (7) The licensee shall maintain and operate all emission units and air pollution systems required by the air emission license in a manner consistent with good air pollution control practice for minimizing emissions.
- (8) The licensee shall maintain sufficient records to accurately document compliance with emission standards and license conditions and shall maintain such records for a minimum of six (6) years. The records shall be submitted to the Department upon written request.
- (9) The licensee shall comply with all terms and conditions of the air emission license. The filing of an appeal by the licensee, the notification of planned changes or anticipated noncompliance by the licensee, or the filing of an application by the licensee for a renewal of a license or amendment shall not stay any condition of the license.
- (10) The licensee may not use as a defense in an enforcement action that the disruption, cessation, or reduction of licensed operations would have been necessary in order to maintain compliance with the conditions of the air emission license.

- (11) In accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department, the licensee shall:
- (i) perform stack testing to demonstrate compliance with the applicable emission standards under circumstances representative of the facility's normal process and operating conditions:
 - a. within sixty (60) calendar days of receipt of a notification to test from the Department or EPA, if visible emissions, equipment operating parameters, staff inspection, air monitoring or other cause indicate to the Department that equipment may be operating out of compliance with emission standards or license conditions; or
 - b. pursuant to any other requirement of this license to perform stack testing.
 - (ii) install or make provisions to install test ports that meet the criteria of 40 CFR Part 60, Appendix A, and test platforms, if necessary, and other accommodations necessary to allow emission testing; and
 - (iii) submit a written report to the Department within thirty (30) days from date of test completion.
- (12) If the results of a stack test performed under circumstances representative of the facility's normal process and operating conditions indicate emissions in excess of the applicable standards, then:
- (i) within thirty (30) days following receipt of such test results, the licensee shall re-test the non-complying emission source under circumstances representative of the facility's normal process and operating conditions and in accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department; and
 - (ii) the days of violation shall be presumed to include the date of stack test and each and every day of operation thereafter until compliance is demonstrated under normal and representative process and operating conditions, except to the extent that the facility can prove to the satisfaction of the Department that there were intervening days during which no violation occurred or that the violation was not continuing in nature; and
 - (iii) the licensee may, upon the approval of the Department following the successful demonstration of compliance at alternative load conditions, operate under such alternative load conditions on an interim basis prior to a demonstration of compliance under normal and representative process and operating conditions.

- (13) Notwithstanding any other provisions in the State Implementation Plan approved by the EPA or Section 114(a) of the CAA, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any statute, regulation, or Part 70 license requirement.
- (14) The licensee shall maintain records of malfunctions, failures, downtime, and any other similar change in operation of air pollution control systems or the emissions unit itself that would affect emission and that is not consistent with the terms and conditions of the air emission license. The licensee shall notify the Department within two (2) days or the next state working day, whichever is later, of such occasions where such changes result in an increase of emissions. The licensee shall report all excess emissions in the units of the applicable emission limitation.
- (15) Upon written request from the Department, the licensee shall establish and maintain such records, make such reports, install, use and maintain such monitoring equipment, sample such emissions (in accordance with such methods, at such locations, at such intervals, and in such a manner as the Department shall prescribe), and provide other information as the Department may reasonably require to determine the licensee's compliance status.
- (16) Boilers #1, #2 and #3
- A. Boilers #1, #2 and #3 shall be limited to the firing of #4 fuel oil with a maximum sulfur content not to exceed 0.7% by weight. In the future, Parkview shall also be allowed to burn #2 fuel oil with a maximum sulfur content not to exceed 0.5% by weight or natural gas.
- B. Emissions from boilers #1, #2 and #3 shall be limited to the following (based on worse case for each of the fuels mentioned above):

Equipment		PM/PM₁₀	SO₂	NO_x	CO	VOC
Boiler #1	lb/hr	0.15	1.9	1.1	0.38	0.10
Boiler #2	lb/hr	0.15	1.9	1.1	0.38	0.10
Boiler #3	lb/hr	0.15	1.9	1.1	0.38	0.10

- C. Visible emissions from boilers #1, #2 and #3 shall not exceed 20% opacity based on a six (6) minute block average basis, except for no more than two (2) six (6) minute blocks in a three hour period.

- D. Parkview shall be limited to an annual fuel use limit of 200,000 gallons of #4 fuel oil (or the equivalent 29,000 MMBtu for fuel oil and natural gas) based on a 12 month rolling total. Parkview shall maintain records of fuel use through purchase receipts documenting the quantity delivered and the sulfur content of each shipment.

(17) Engine #1

- A. Engine #1 shall be limited to the firing of low sulfur diesel fuel with a maximum sulfur content not to exceed 0.05% by weight.

- B. Emissions from engine #1 shall be limited to the following:

Equipment		PM/PM ₁₀	SO ₂	NO _x	CO	VOC
Engine #1	lb/hr	0.47	0.13	4.6	4.5	0.65

- C. Visible emissions from engine #1 shall not exceed 20% opacity based on a six (6) minute block average basis, except for no more than two (2) six (6) minute blocks in a three hour period.

- D. Engine #1 shall be limited to an annual operational limit of 500 hours based on a 12 month rolling total. Parkview shall maintain monthly records of hours used.

(18) Annual Emission Limits

Parkview shall be limited to the following annual emissions facility-wide:

<u>Pollutant</u>	<u>Tons/Year</u>
PM	1.0
PM ₁₀	1.0
SO ₂	11.6
NO _x	7.8
CO	2.3
VOC	0.77

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(19) This license shall expire five years from the signature date below.

DONE AND DATED IN AUGUSTA, MAINE THIS DAY OF 1999.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: _____
MARTHA G. KIRKPATRICK, COMMISSIONER

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: October 4, 1999

Date of application acceptance: October 6, 1999

Date filed with the Board of Environmental Protection: _____

This Order prepared by Stephanie L. Carver, Bureau of Air Quality